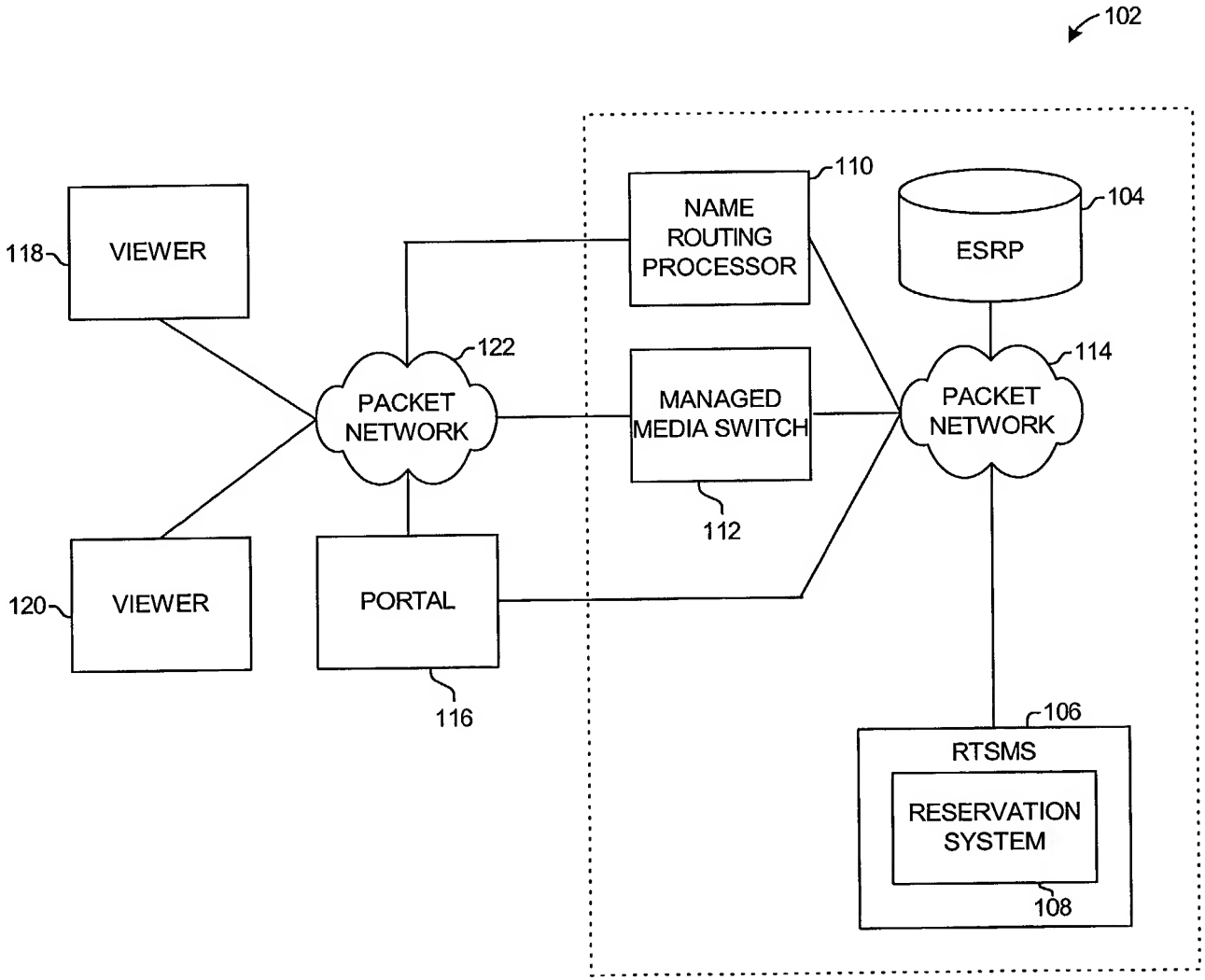
102
118
VIEWER
120
VIEWER
PACKET NETWORK
122
PORTAL
116
NAME ROUTING PROCESSOR
110
MANAGED MEDIA SWITCH
112
ESRP
104
PACKET NETWORK
114
106
RTSMS
RESERVATION SYSTEM
108

FIG. 1

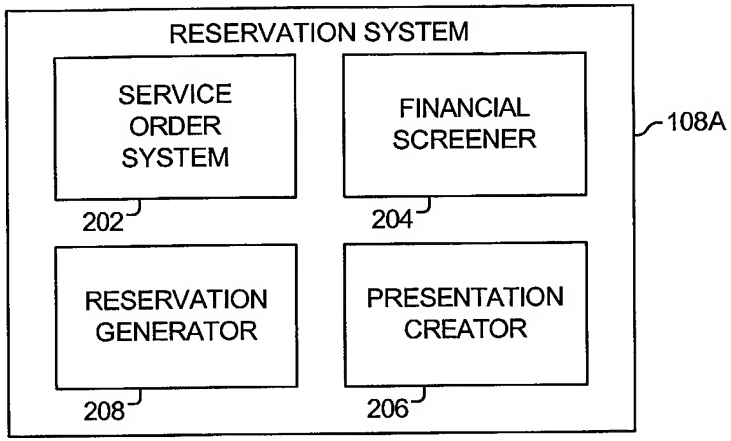
RESERVATION SYSTEM
SERVICE ORDER SYSTEM
FINANCIAL SCREENER
RESERVATION GENERATOR
PRESENTATION CREATOR
202
204
208
206
108A

FIG. 2

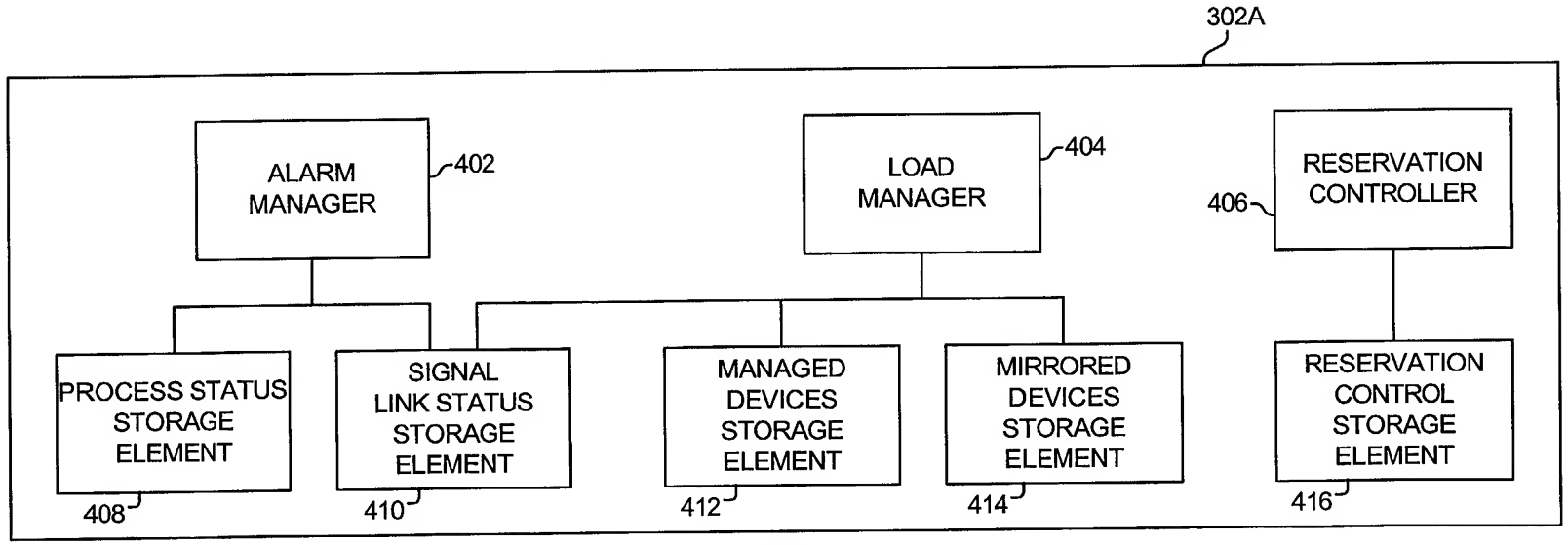
302A
ALARM MANAGER
402
LOAD MANAGER
404
RESERVATION CONTROLLER
406
PROCESS STATUS STORAGE ELEMENT
SIGNAL LINK STATUS STORAGE ELEMENT
MANAGED DEVICES STORAGE ELEMENT
MIRRORED DEVICES STORAGE ELEMENT
RESERVATION CONTROL STORAGE ELEMENT
408
410
412
414
416

FIG. 4

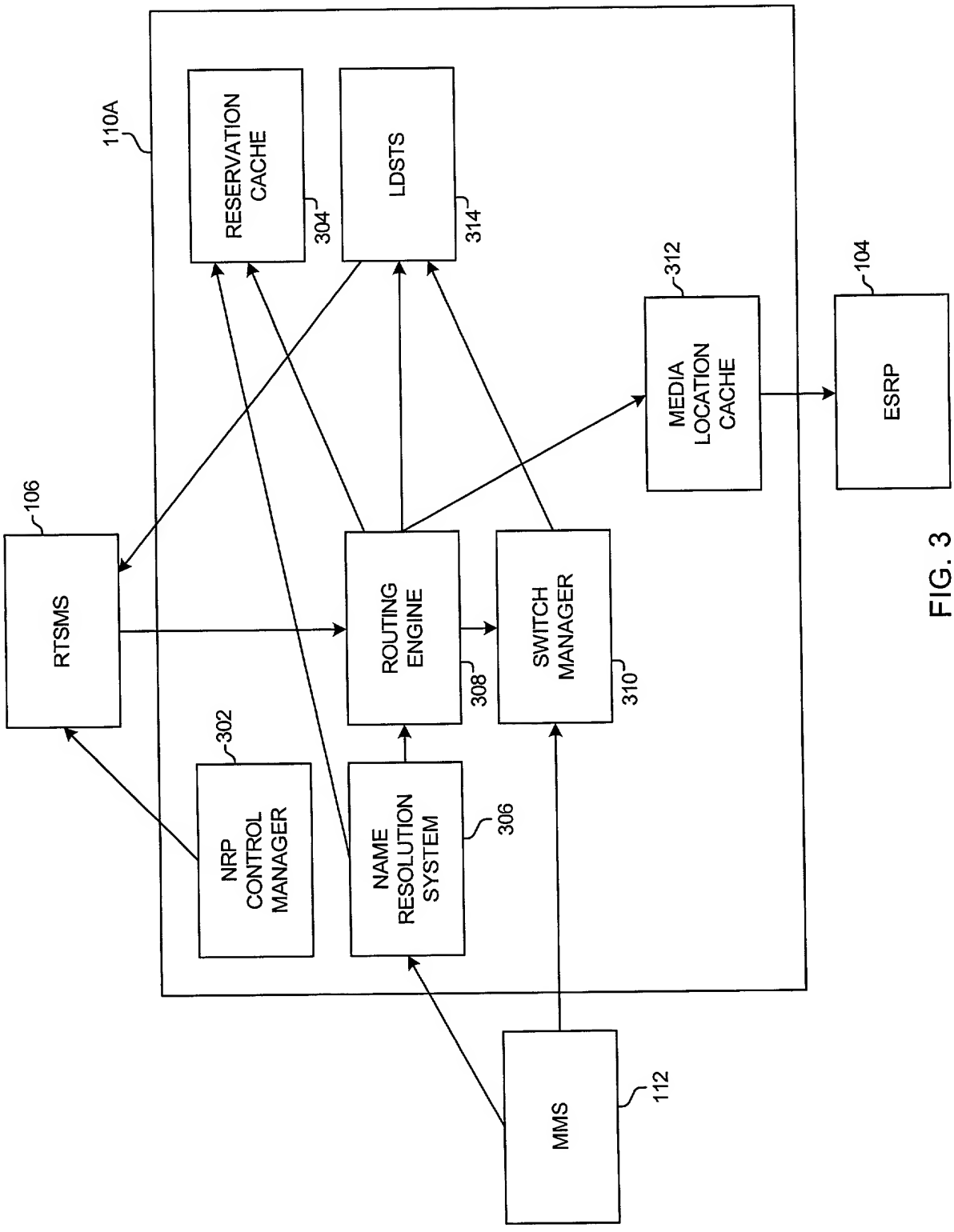
110A
RESERVATION CACHE
304
LDSTS
314
312
MEDIA LOCATION CACHE
104
ESRP
106
RTSMS
ROUTING ENGINE
308
SWITCH MANAGER
310
302
NRP CONTROL MANAGER
NAME RESOLUTION SYSTEM
306
MMS
112

FIG. 3

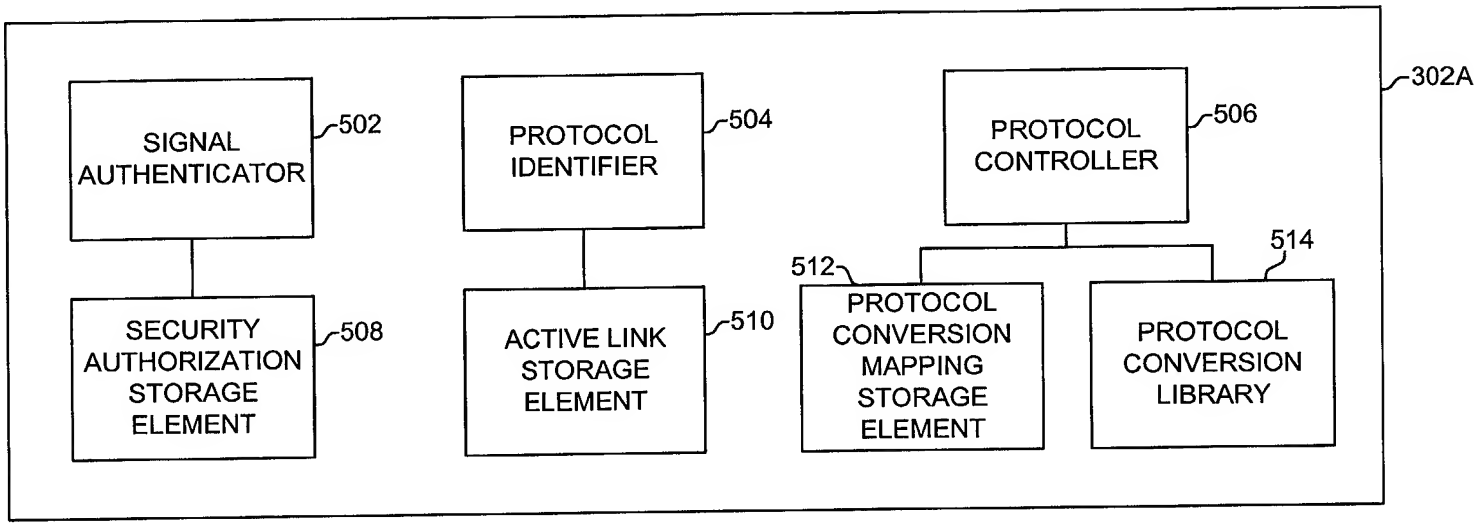
302A
SIGNAL AUTHENTICATOR
502
PROTOCOL IDENTIFIER
504
PROTOCOL CONTROLLER
506
SECURITY AUTHORIZATION STORAGE ELEMENT
508
ACTIVE LINK STORAGE ELEMENT
510
512
PROTOCOL CONVERSION MAPPING STORAGE ELEMENT
514
PROTOCOL CONVERSION LIBRARY

FIG. 5

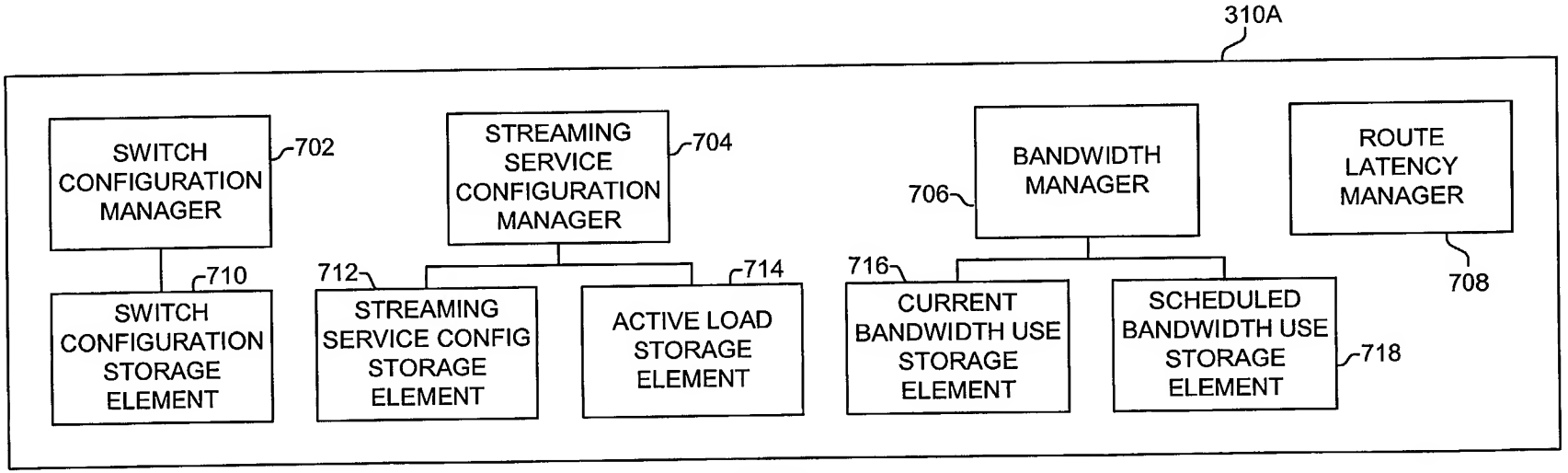
310A
SWITCH CONFIGURATION MANAGER
702
STREAMING SERVICE CONFIGURATION MANAGER
704
706
BANDWIDTH MANAGER
ROUTE LATENCY MANAGER
708
710
SWITCH CONFIGURATION STORAGE ELEMENT
712
STREAMING SERVICE CONFIG STORAGE ELEMENT
714
ACTIVE LOAD STORAGE ELEMENT
716
CURRENT BANDWIDTH USE STORAGE ELEMENT
SCHEDULED BANDWIDTH USE STORAGE ELEMENT
718

FIG. 7

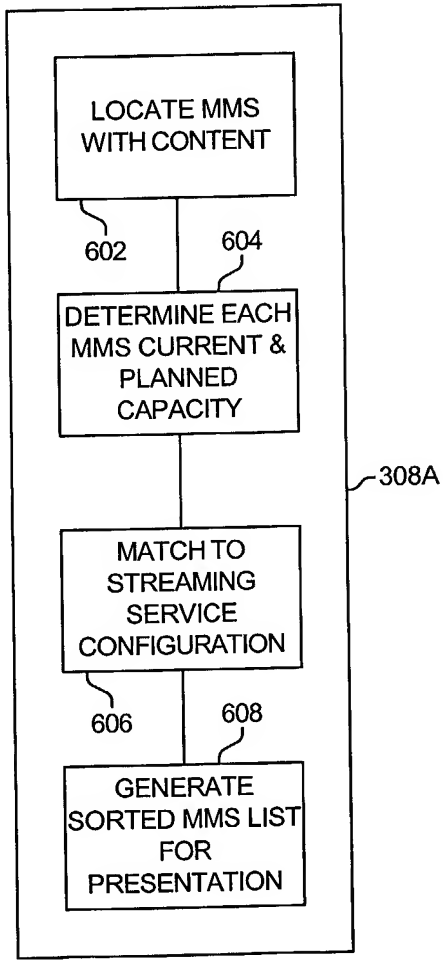

FIG. 6

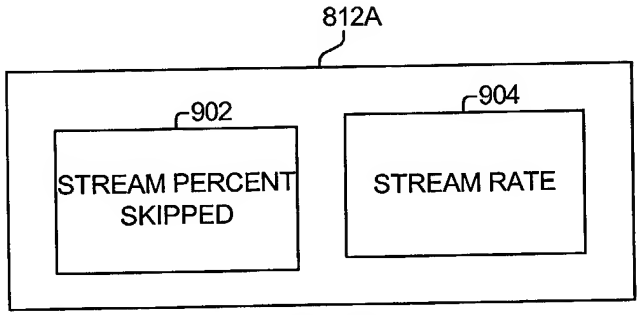

FIG. 9

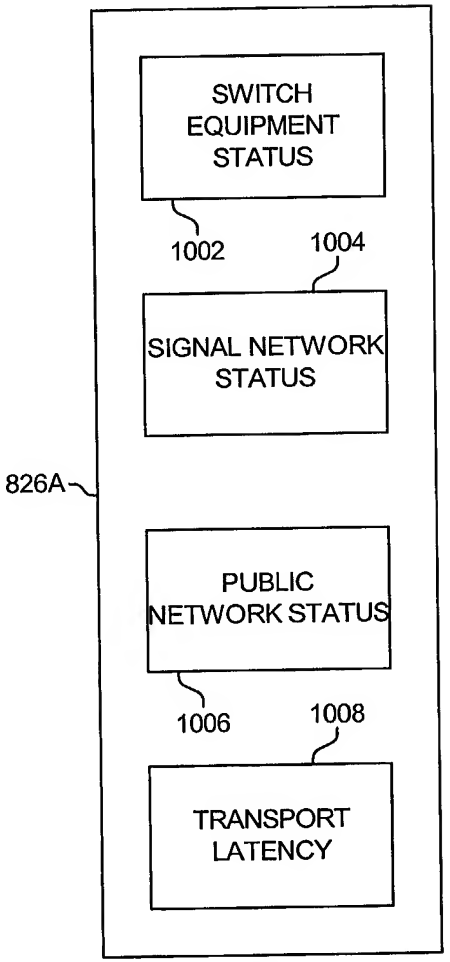

FIG. 10

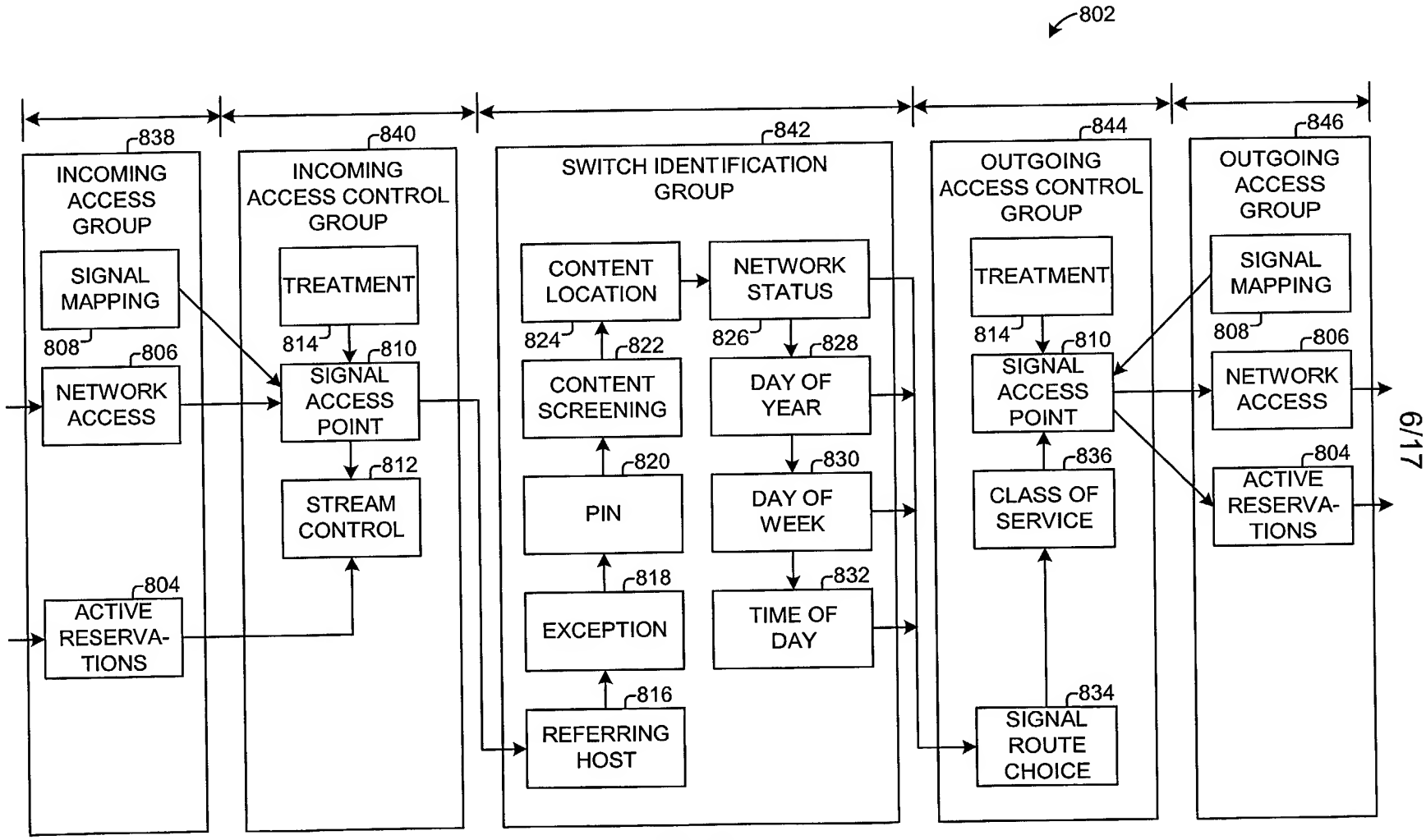
802
838
INCOMING ACCESS GROUP
SIGNAL MAPPING
808
NETWORK ACCESS
806
ACTIVE RESERVA-TIONS
804
840
INCOMING ACCESS CONTROL GROUP
TREATMENT
814
SIGNAL ACCESS POINT
810
STREAM CONTROL
812
842
SWITCH IDENTIFICATION GROUP
CONTENT LOCATION
824
CONTENT SCREENING
822
PIN
820
EXCEPTION
818
REFERRING HOST
816
NETWORK STATUS
826
DAY OF YEAR
828
DAY OF WEEK
830
TIME OF DAY
832
844
OUTGOING ACCESS CONTROL GROUP
TREATMENT
814
SIGNAL ACCESS POINT
810
CLASS OF SERVICE
836
SIGNAL ROUTE CHOICE
834
846
OUTGOING ACCESS GROUP
SIGNAL MAPPING
808
NETWORK ACCESS
806
ACTIVE RESERVA-TIONS
804

FIG. 8

1102

TABLE NUMBER	TABLE NAME	TREATMENT TABLE ACCESS POINT: INCOMING ACCESS	INCOMING ACCESS CONTROL	SWITCH IDENTIFICATION & SELECTION	OUTGOING ACCESS CONTROL	OUTGOING ACCESS
804	ACTIVE RESERVATIONS	X				X
806	NETWORK ACCESS					
808	SIGNAL MAPPING		X		X	
810	SIGNAL ACCESS POINT		X		X	
812	STREAM CONTROL		X			
816	REFERRING HOST			X		
818	EXCEPTION			X		
820	PERSONAL IDENTIFICATION NUMBER			X		
822	CONTENT SCREENING			X		
824	CONTENT LOCATION			X		
826	NETWORK STATUS			X		
828	DAY OF YEAR			X		
830	DAY OF WEEK			X		
832	TIME OF DAY			X		
834	SIGNAL ROUTE CHOICE				X	
836	CLASS OF SERVICE				X	

FIG. 11

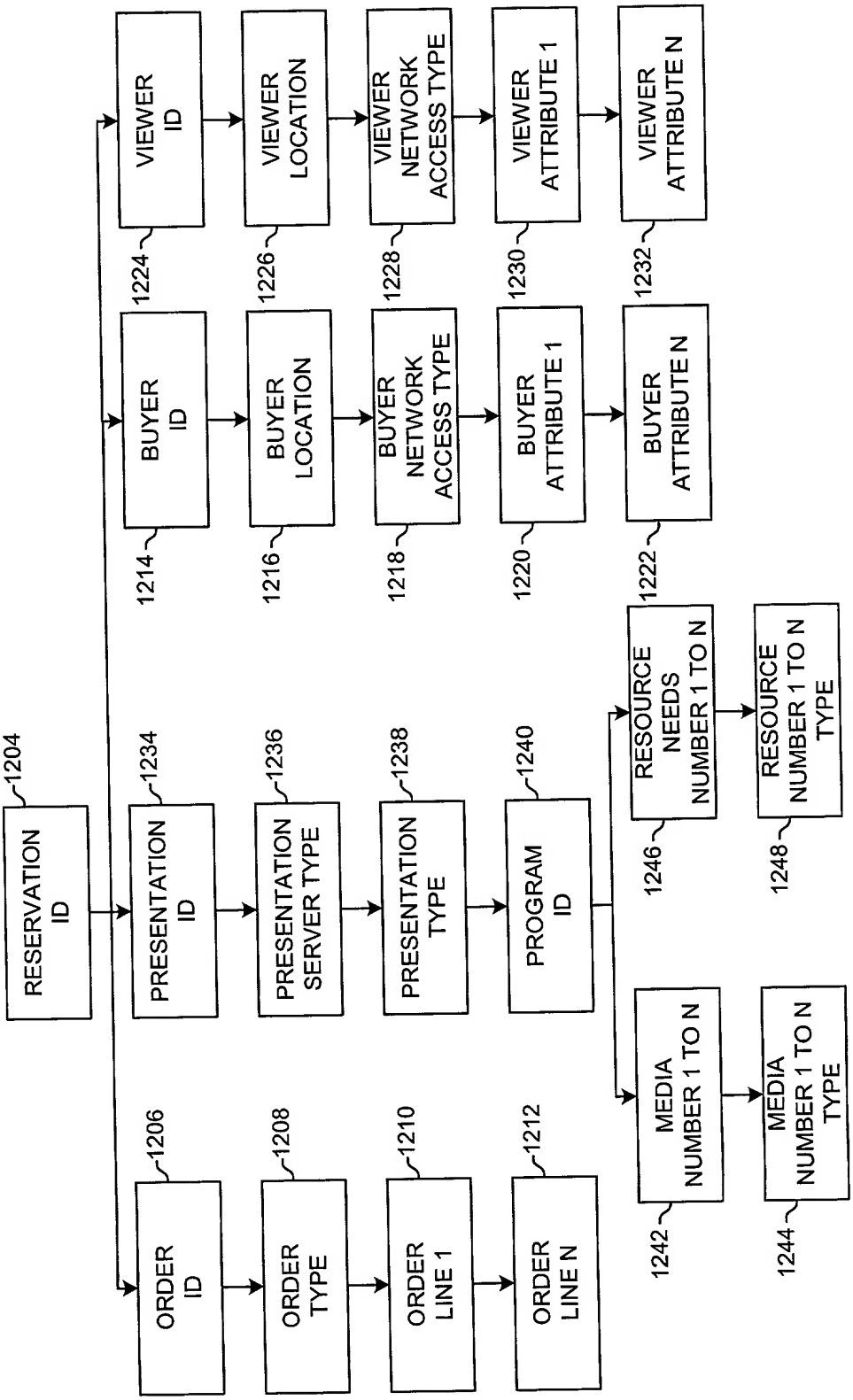
1202
RESERVATION ID
1204
ORDER ID
1206
ORDER TYPE
1208
ORDER LINE 1
1210
ORDER LINE N
1212
PRESENTATION ID
1234
PRESENTATION SERVER TYPE
1236
PRESENTATION TYPE
1238
PROGRAM ID
1240
BUYER ID
1214
BUYER LOCATION
1216
BUYER NETWORK ACCESS TYPE
1218
BUYER ATTRIBUTE 1
1220
BUYER ATTRIBUTE N
1222
VIEWER ID
1224
VIEWER LOCATION
1226
VIEWER NETWORK ACCESS TYPE
1228
VIEWER ATTRIBUTE 1
1230
VIEWER ATTRIBUTE N
1232
RESOURCE NEEDS NUMBER 1 TO N
1246
RESOURCE NUMBER 1 TO N TYPE
1248
MEDIA NUMBER 1 TO N
1242
MEDIA NUMBER 1 TO N TYPE
1244

FIG. 12

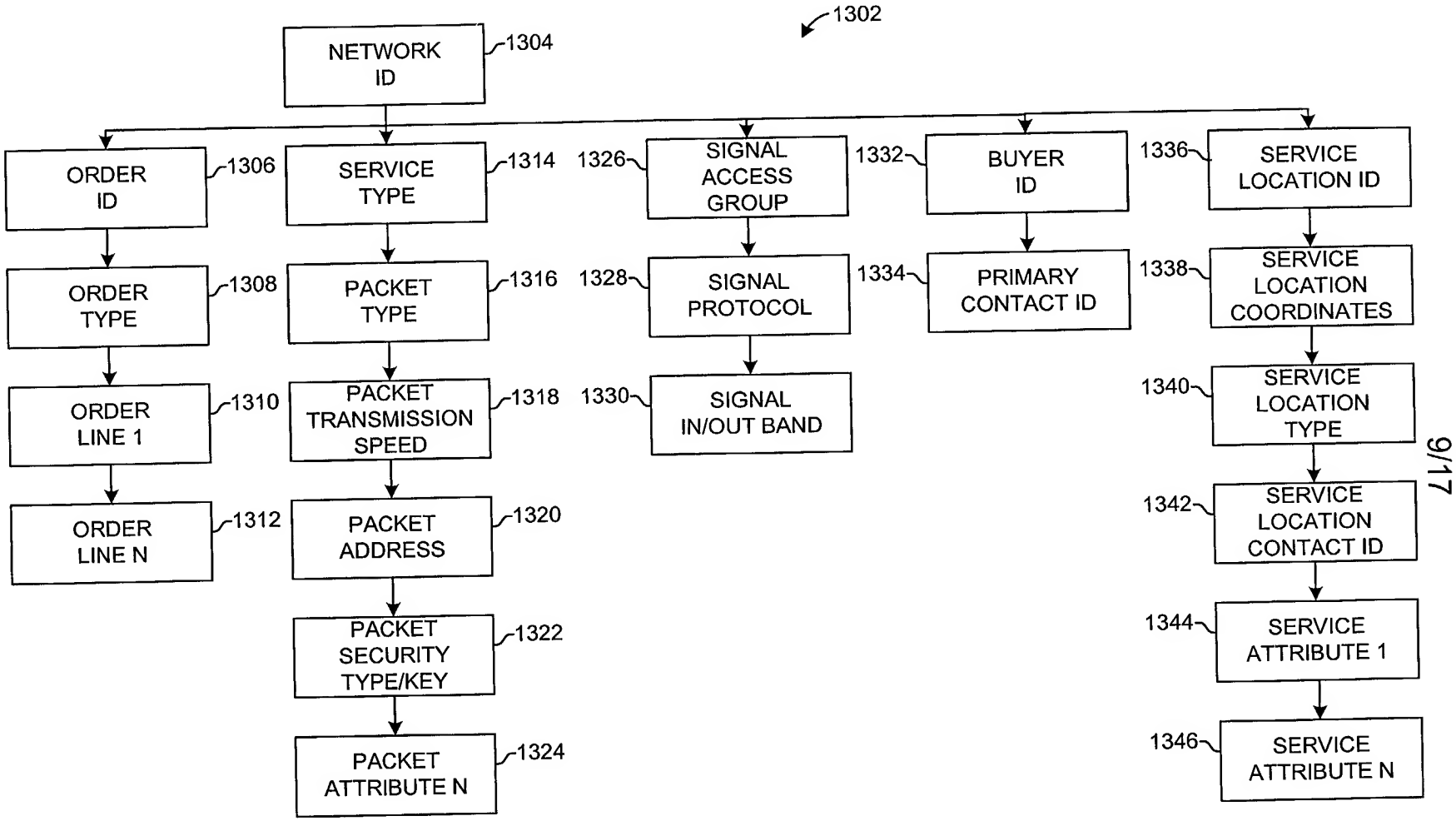
1302
NETWORK ID
1304
ORDER ID
1306
ORDER TYPE
1308
ORDER LINE 1
1310
ORDER LINE N
1312
SERVICE TYPE
1314
PACKET TYPE
1316
PACKET TRANSMISSION SPEED
1318
PACKET ADDRESS
1320
PACKET SECURITY TYPE/KEY
1322
PACKET ATTRIBUTE N
1324
1326
SIGNAL ACCESS GROUP
1328
SIGNAL PROTOCOL
1330
SIGNAL IN/OUT BAND
1332
BUYER ID
1334
PRIMARY CONTACT ID
1336
SERVICE LOCATION ID
1338
SERVICE LOCATION COORDINATES
1340
SERVICE LOCATION TYPE
1342
SERVICE LOCATION CONTACT ID
1344
SERVICE ATTRIBUTE 1
1346
SERVICE ATTRIBUTE N

FIG. 13

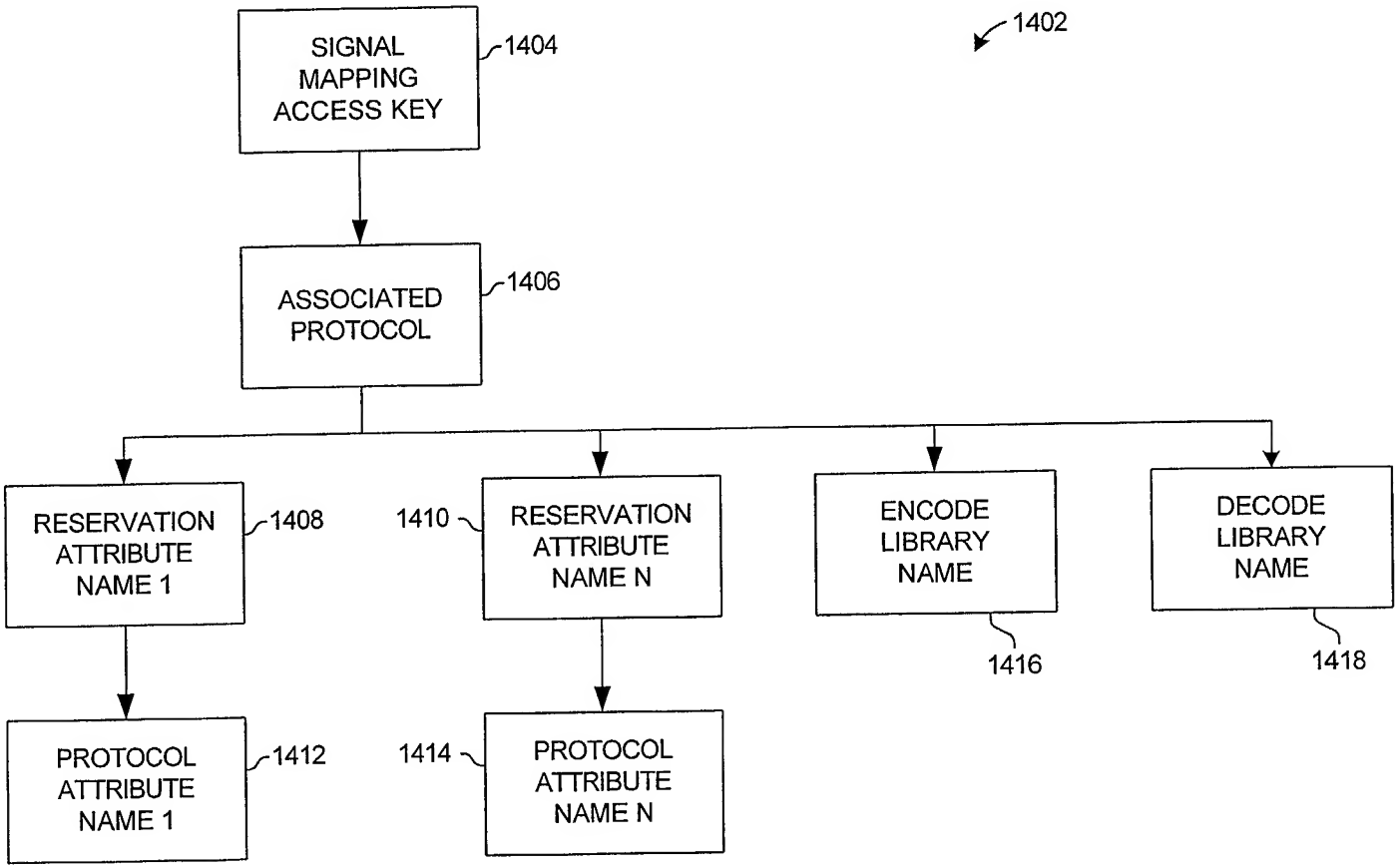
SIGNAL MAPPING ACCESS KEY
1404
1402
ASSOCIATED PROTOCOL
1406
RESERVATION ATTRIBUTE NAME 1
1408
1410
RESERVATION ATTRIBUTE NAME N
ENCODE LIBRARY NAME
1416
DECODE LIBRARY NAME
1418
PROTOCOL ATTRIBUTE NAME 1
1412
1414
PROTOCOL ATTRIBUTE NAME N

FIG. 14

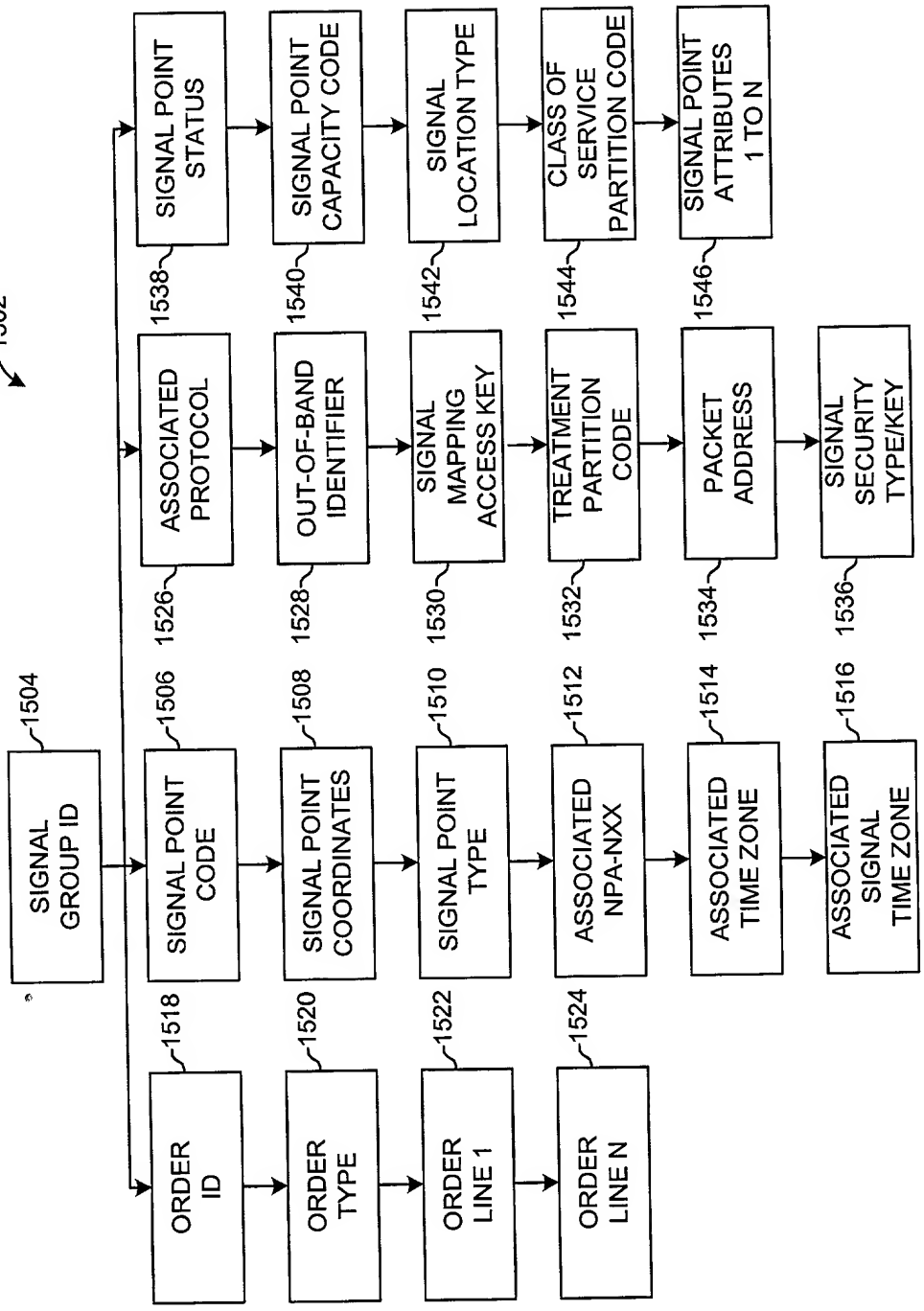
1502
SIGNAL GROUP ID
1504
SIGNAL POINT CODE
1506
SIGNAL POINT COORDINATES
1508
SIGNAL POINT TYPE
1510
ASSOCIATED NPA-NXX
1512
ASSOCIATED TIME ZONE
1514
ASSOCIATED SIGNAL TIME ZONE
1516
ORDER ID
1518
ORDER TYPE
1520
ORDER LINE 1
1522
ORDER LINE N
1524
ASSOCIATED PROTOCOL
1526
OUT-OF-BAND IDENTIFIER
1528
SIGNAL MAPPING ACCESS KEY
1530
TREATMENT PARTITION CODE
1532
PACKET ADDRESS
1534
SIGNAL SECURITY TYPE/KEY
1536
SIGNAL POINT STATUS
1538
SIGNAL POINT CAPACITY CODE
1540
SIGNAL LOCATION TYPE
1542
CLASS OF SERVICE PARTITION CODE
1544
SIGNAL POINT ATTRIBUTES 1 TO N
1546

FIG. 15

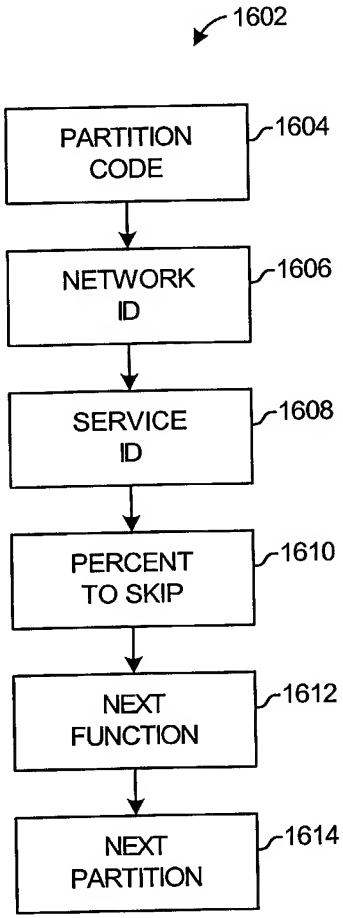

FIG. 16

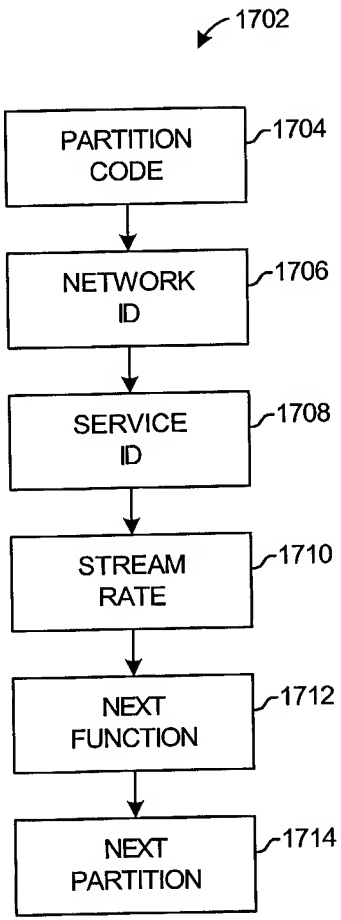

FIG. 17

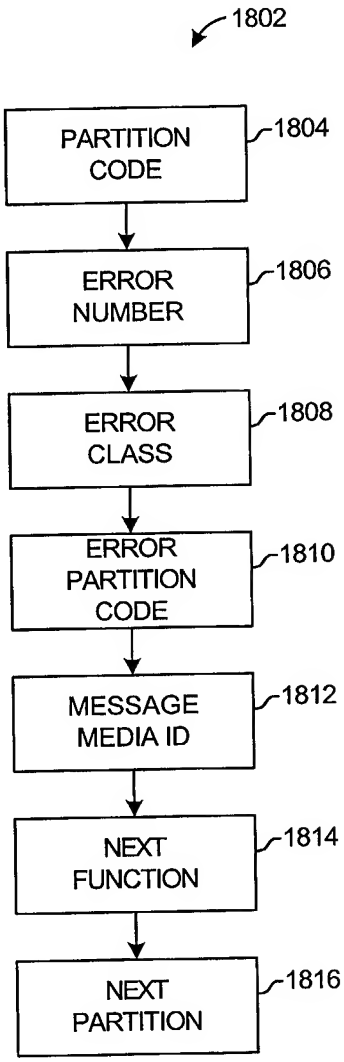

FIG. 18

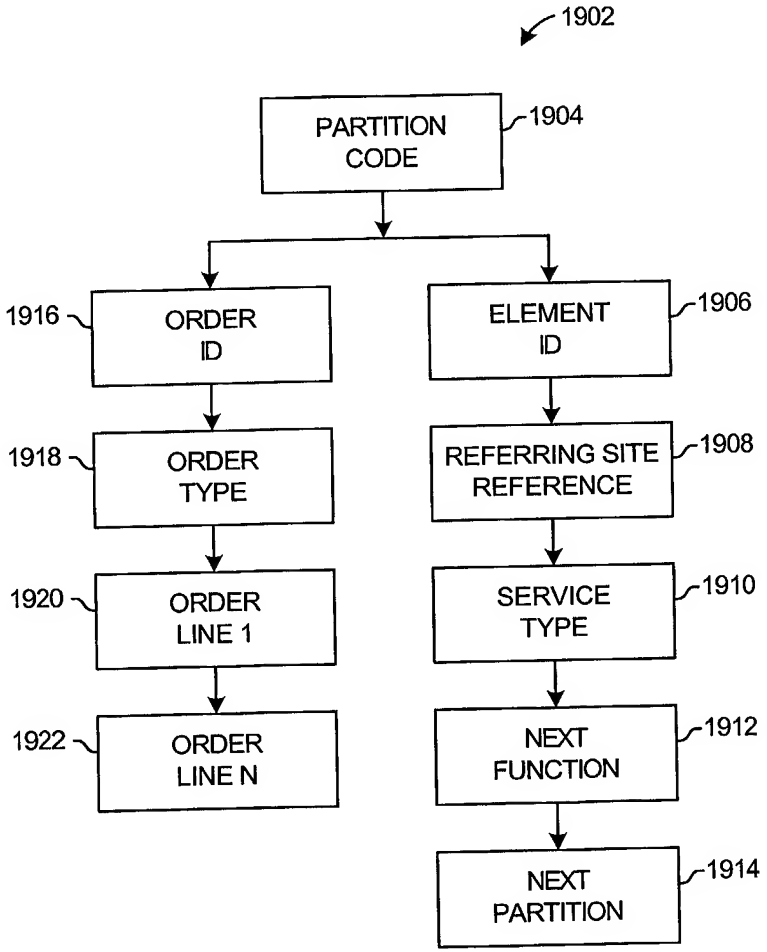
1902
PARTITION CODE
1904
ORDER ID
1916
ELEMENT ID
1906
ORDER TYPE
1918
REFERRING SITE REFERENCE
1908
ORDER LINE 1
1920
SERVICE TYPE
1910
ORDER LINE N
1922
NEXT FUNCTION
1912
NEXT PARTITION
1914

FIG. 19

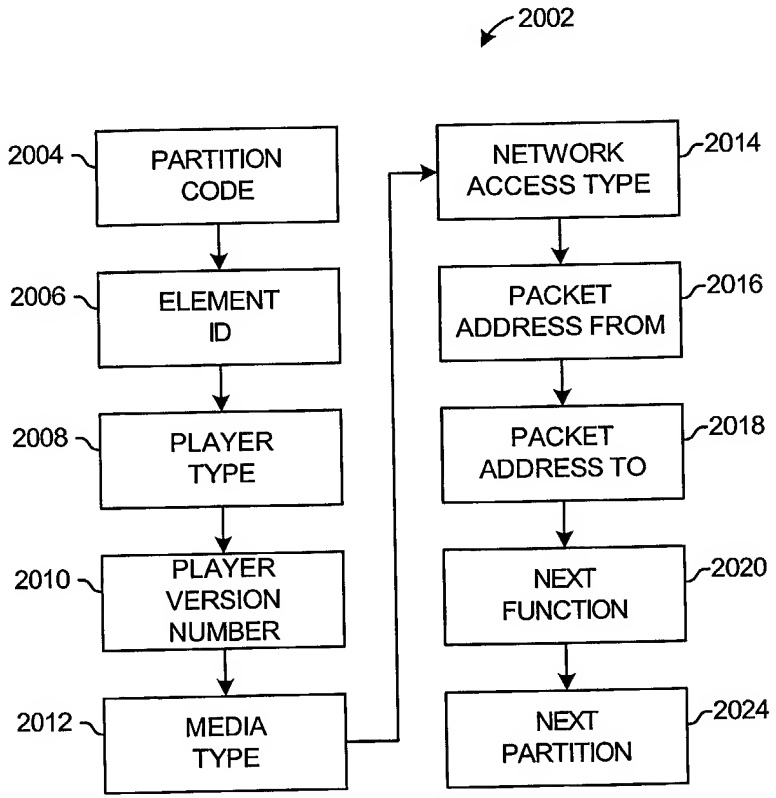
2002
2004
PARTITION CODE
2006
ELEMENT ID
2008
PLAYER TYPE
2010
PLAYER VERSION NUMBER
2012
MEDIA TYPE
NETWORK ACCESS TYPE
2014
PACKET ADDRESS FROM
2016
PACKET ADDRESS TO
2018
NEXT FUNCTION
2020
NEXT PARTITION
2024

FIG. 20

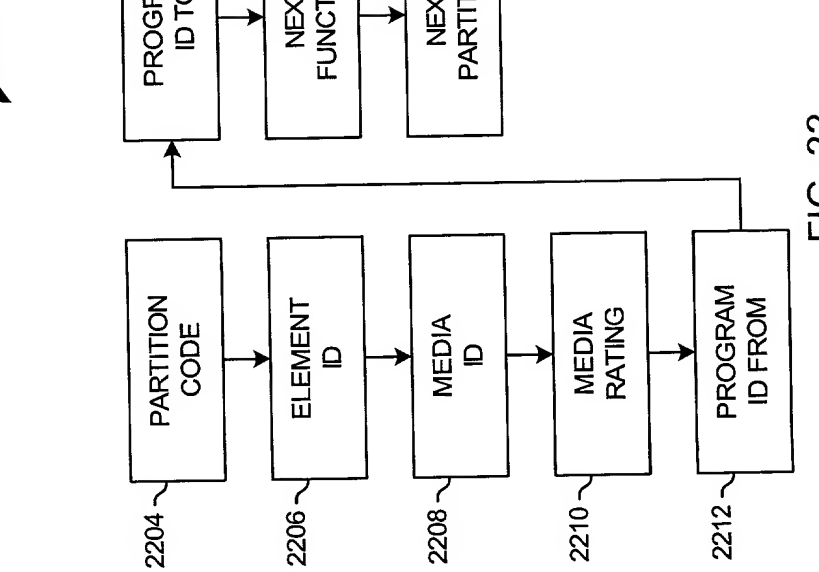
2202
PROGRAM ID TO
NEXT FUNCTION
NEXT PARTITION
2214
2216
2218
PARTITION CODE
ELEMENT ID
MEDIA ID
MEDIA RATING
PROGRAM ID FROM
2204
2206
2208
2210
2212

FIG. 22

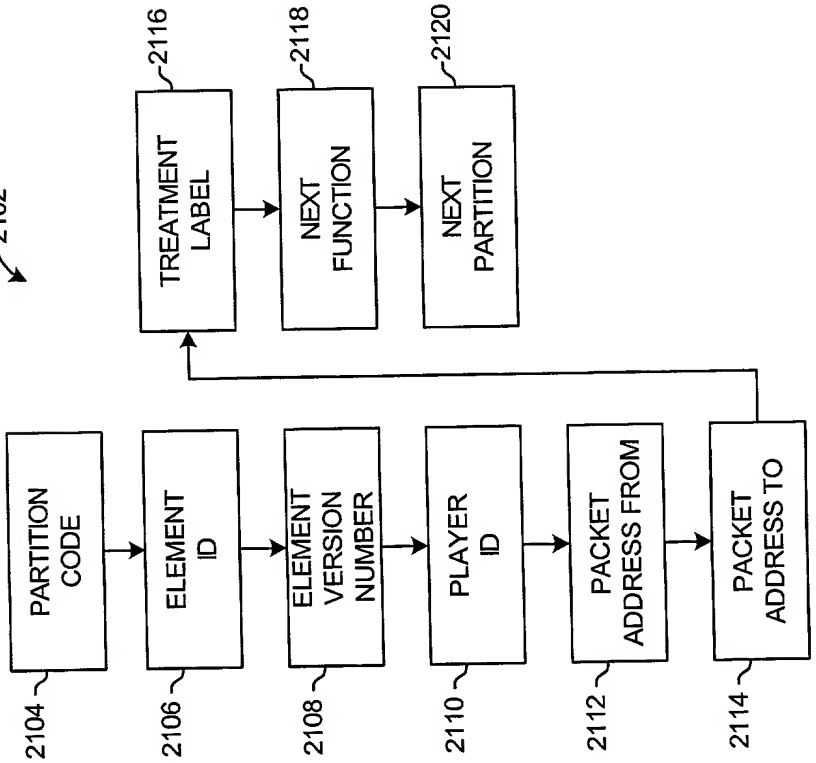
2102
TREATMENT LABEL
NEXT FUNCTION
NEXT PARTITION
2116
2118
2120
PARTITION CODE
ELEMENT ID
ELEMENT VERSION NUMBER
PLAYER ID
PACKET ADDRESS FROM
PACKET ADDRESS TO
2104
2106
2108
2110
2112
2114

FIG. 21

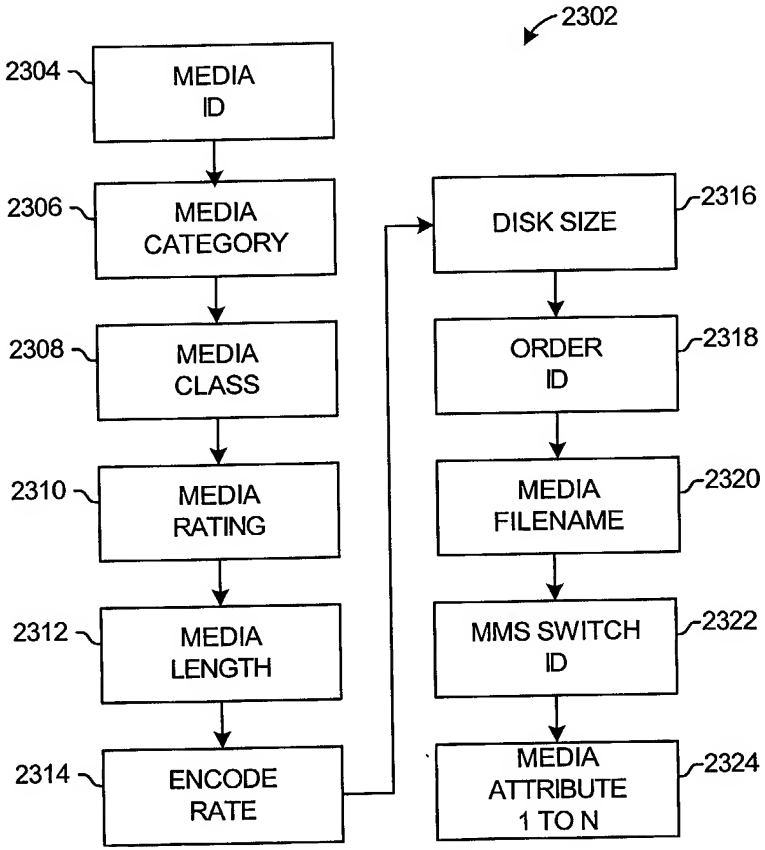
2302
2304
MEDIA ID
2306
MEDIA CATEGORY
2308
MEDIA CLASS
2310
MEDIA RATING
2312
MEDIA LENGTH
2314
ENCODE RATE
2316
DISK SIZE
2318
ORDER ID
2320
MEDIA FILENAME
2322
MMS SWITCH ID
2324
MEDIA ATTRIBUTE 1 TO N

FIG. 23

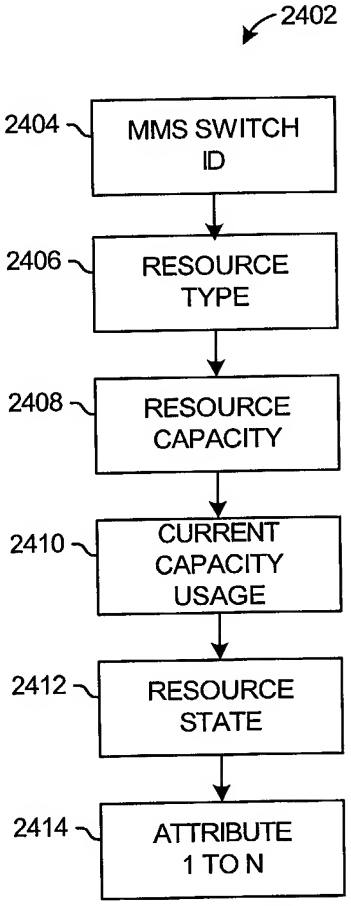
2402
2404
MMS SWITCH ID
2406
RESOURCE TYPE
2408
RESOURCE CAPACITY
2410
CURRENT CAPACITY USAGE
2412
RESOURCE STATE
2414
ATTRIBUTE 1 TO N

FIG. 24

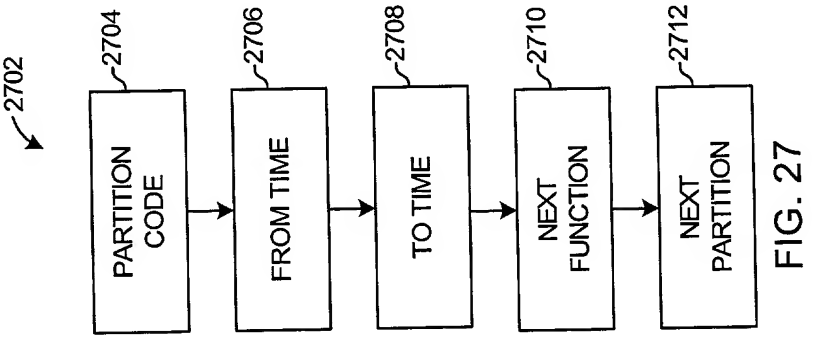

FIG. 27

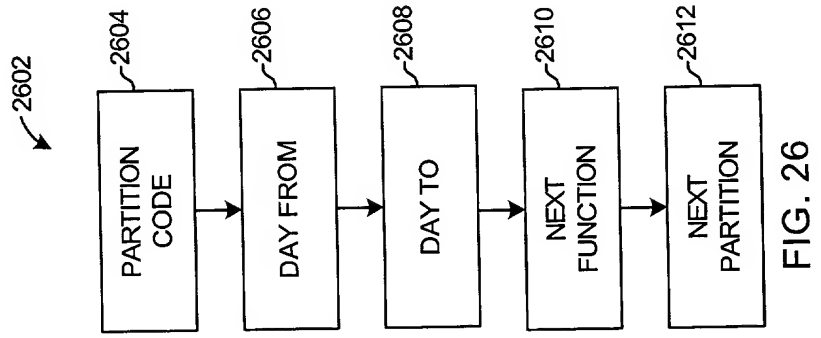

FIG. 26

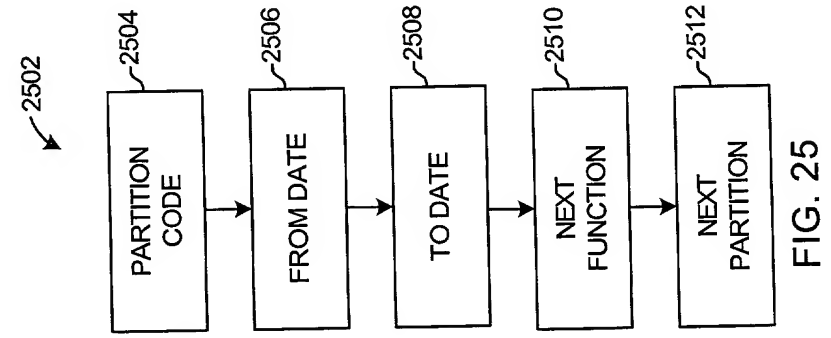

FIG. 25

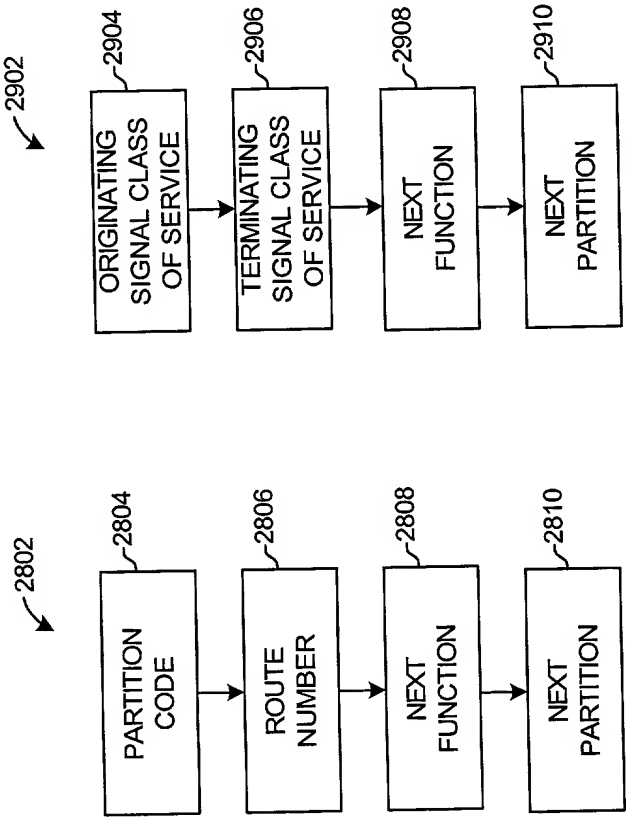
2902
2904
ORIGINATING SIGNAL CLASS OF SERVICE
2906
TERMINATING SIGNAL CLASS OF SERVICE
2908
NEXT FUNCTION
2910
NEXT PARTITION

FIG. 29

2802
2804
PARTITION CODE
2806
ROUTE NUMBER
2808
NEXT FUNCTION
2810
NEXT PARTITION

FIG. 28